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The following questions will be utilized to check for understanding of the basic electricity concepts included in Chapter 1 and 2 of the black 3 Ring Binders (White Pages). After constructing projects 1-4 the students will bring their project to the instructor for verification and a check on learning.

**PROJECT 1**

* What type of reaction is happening in the batteries?Click here to enter text.
* The flow of electricity goes from what pole to what pole Click here to enter text.
* What type of circuit do you have when the switch is off? Click here to enter text.
* What type of circuit do you have when the switch is on? Click here to enter text.
* The chemical reaction in the battery is converted into \_\_\_\_\_\_\_\_\_\_\_ energy? Click here to enter text.
* The electrical energy in project one is converted into what two kinds of energy? Click here to enter text.

**PROJECT 2**

* In this project, electrical energy is changed into what type of energy? Click here to enter text.
* What type of motor is used in the circuit? Give some examples. Click here to enter text.
* If you were to remove any of the #2 Snap circuits, would the fan still work? Click here to enter text.Why?Click here to enter text.
* What does DC stand for? Click here to enter text.
* In this circuit, the motor is set up with the POS (+) pole in line with the POS (+) pole of the battery. This is known as reverse polarity. What is polarity?Click here to enter text. What would happen to the direction of the fan if you changed the polarity? Click here to enter text.

**PROJECT 3**

* In this project, electrical energy is changed into what type of energy? Click here to enter text.
* What is an IC? P.4 Gold pages)Click here to enter text.
* What is the WC? How is it switched/activated? Click here to enter text.

**PROJECT 4**

* In this project you changed the amount of current flowing to the speaker, what part in the circuit did this?
* Resistance is measured in what unit? Click here to enter text.

PROJECTS 5-12 will be completed at the students pace utilizing the handouts in the black binders. The students will complete this within **5 days of beginning**.

HMS

STEM

7th Grade